

MA3408 Week 8

Drew Heard (drew.k.heard@ntnu.no)

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Question 1.

Use the Serre spectral sequence to prove the following:

If $F \rightarrow E \rightarrow S^n$ is a fibration, then there is an exact sequence

$$\cdots \rightarrow H_i(F) \rightarrow H_i(E) \rightarrow H_{i-n}(F) \rightarrow H_{i-1}(F) \rightarrow \cdots$$